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faith, hope and parity



an anthology
of selected
humor from
Datamation magazine

This spoof of the computer world will leave you limp with laughter. The tongue-in-cheek treatment is sprinkled with delightful cartoons to further enhance your reading pleasure. The material, edited by Jack Moshman, is based upon humorous articles that have appeared in Datamation magazine.

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The Professional's Corner—Engineers will see the "Postal System Input Buffer Device" as a new member of a family from engineering school. "On Line — and Off" may be taken by some as a suggestive piece, rather than a burlesque.

Pastiche And Parodies—B. Conan Doyle's Holmes is in the tradition of A. Conan Doyle's Holmes. And who else but Mencken would believe that "these modern day, solid state bit manipulators... will really work?"

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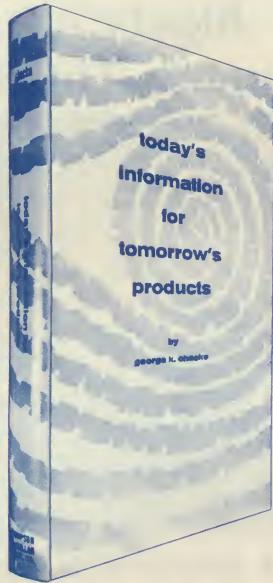
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by George K. Chacko,
The MITRE Corp.

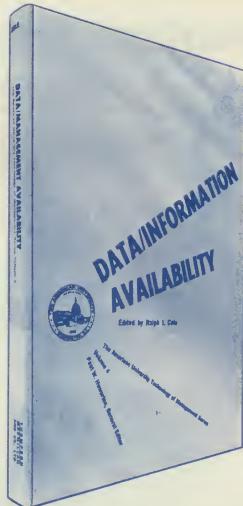
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from the U.S.S.R. — current work on pattern recognition and its relation to relevant research in the West...

by A. G. Arkadev and
E. M. Braverman
(Translated from the Russian
by J. D. Cowan and W. Turski)

This book fills an important need for up-to-date information about Soviet developments in a rapidly-growing field. The underlying assumption throughout is that images form "compact" sets in a suitable representative "space" whose "coordinates" are the distinct "features" of the patterns presented to the machine. The image-compactness hypothesis is used as a point of reference for the analysis of different designs for the construction of pattern-recognizing machines. The algorithms underlying two well-known Western machines, the PERCEPTRON and the PAPA are also discussed in terms of this hypothesis. Contents include: Dissecting Planes Algorithm; Algorithms Based on Potentials Method; Possible Ways of Further Improvement of Cognitive Machines.

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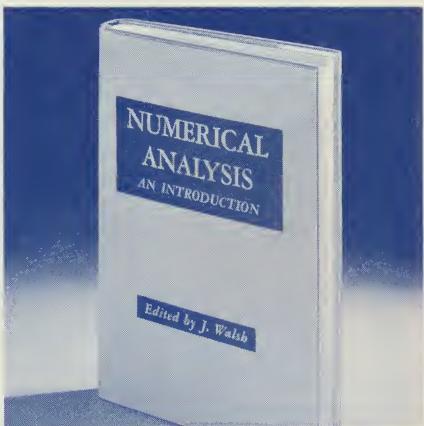
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the University, Manchester, England

(Based on a Symposium organized by the
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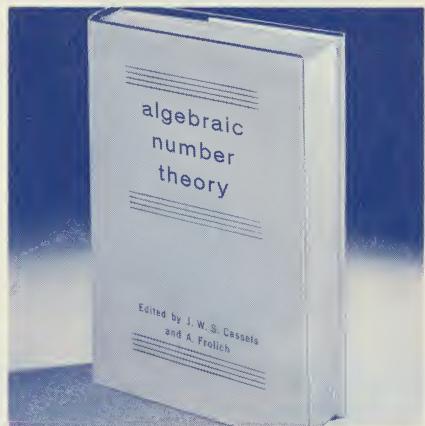
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Algebraic Number Theory



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algebraist and
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basic theory

Edited by J. W. S. Cassels and A. Frohlich

(Proceedings of an Instructional Conference
organized by the London Mathematical Society —
a NATO Advanced Study Institute — with the
support of the International Mathematical Union)

The opening chapters in this work give a broad introduction to algebraic number theory; followed by the elementary and utilitarian tools needed for class field theory. The section on class field theory should dispel forever the aura of mystery which has previously surrounded the subject. The emphasis throughout is on intelligibility; the reader who has mastered what is done here can approach the rest of the literature with confidence. The concluding chapter is Tate's thesis (Princeton, 1950), which has been seminal for later developments but was never published. **Contents include:** Cohomology of Groups; Zeta-functions and L-functions; Semi-simple Algebraic Groups; Applications of Computers to Class Field Theory; Fourier Analysis in Number Fields.

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